

#7



## SEQUENCE LISTING

<110> Gordon-Kamm, William  
Lowe, Keith  
Sun, Yuejin  
Dilkes, Brian  
Larkins, Brian

<120> Cell Cycle Nucleic Acids, Polypeptides,  
and Uses Thereof

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ggcgttgctg cag atg ggg aag tac atg cgc aag tgc aag ggc gcc gca 169  
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ggc gcg gag gtc gcc gcc gtc gag gtt acg cag gtc gtc ggc gtc cgg 217  
Gly Ala Glu Val Ala Ala Val Glu Val Thr Gln Val Val Gly Val Arg  
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acg agg tcc agg tcc gcg gcg gcg acc ggc ggt gtc gcg aag gtc gcc 265  
Thr Arg Ser Arg Ser Ala Ala Ala Thr Gly Gly Val Ala Lys Val Ala  
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Pro Arg Arg Lys Arg Ala Pro Ala Gly Glu Pro Ala Ala Ala Val Ser  
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gct ggt ggg gac ggc gga agc tgc tac atc cac ctg cgt agc cgc atg 361  
Ala Gly Gly Asp Gly Gly Ser Cys Tyr Ile His Leu Arg Ser Arg Met  
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ctg ttc atg gca ccg cct cag ccg cag ccg tgc gtt gac tgc gtt ccg 409  
Leu Phe Met Ala Pro Pro Gln Pro Gln Pro Ser Val Asp Ser Val Pro  
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acc ccg gtg gag gct gct gat ggc gct gca gga cag cag ggc gcg gcg 457

Thr	Pro	Val	Glu	Ala	Ala	Asp	Gly	Ala	Ala	Gly	Gln	Gln	Gly	Ala	Ala		
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Ser	Asn	Ser	Gly	Ser	Gly	Pro	Asp	Arg	Glu	Arg	Arg	Glu	Thr	Thr	Pro		
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ctg	atc	gtg	ccg	cca	gca	cac	gag	atc	cag	gag	ttc	ttc	gcc	gcc	gcc	793	
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Pro	Pro	Gln	Pro	Gln	Pro	Ser	Val	Asp	Ser	Val	Pro	Thr	Pro	Val	Glu
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Gly	Gln	Arg	Gly	Ser	His	Thr	Cys	Arg	Ser	Tyr	Asp	Ala	Ala	Glu	Ala
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Pro	Ala	His	Glu	Ile	Gln	Glu	Phe	Phe	Ala	Ala	Ala	Glu	Ala	Ala	Gln
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Ala	Lys	Arg	Phe	Ala	Ser	Lys	Tyr	Asn	Phe	Asp	Phe	Val	Arg	Gly	Val
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gag cag cag acg cag tgg gag gaa ggt gct ggc gcc gag tac ctg gag Glu Gln Gln Thr Gln Trp Glu Glu Gly Ala Gly Gly Glu Tyr Leu Glu	40 45 50 55	318
cta agg aac cgg agg ctc gag aag ctg ccg ccg ccg ccg gcg acc acg Leu Arg Asn Arg Arg Leu Glu Lys Leu Pro Pro Pro Pro Ala Thr Thr	60 65 70	366
agg agg tcg ggc ggg agg aaa gcg gca gcc gag gcc gcc gca act aag Arg Arg Ser Gly Gly Arg Lys Ala Ala Glu Ala Ala Ala Thr Lys	75 80 85	414
gag gct gag gcg tcg tac ggg gag aac atg ctc gag ttg gag gcc atg Glu Ala Glu Ala Ser Tyr Gly Glu Asn Met Leu Glu Leu Glu Ala Met	90 95 100	462
gag agg att acc agg gag acg acg cct tgc agc ttg att aac acc cag Glu Arg Ile Thr Arg Glu Thr Thr Pro Cys Ser Leu Ile Asn Thr Gln	105 110 115	510
atg act agc act cct ggg tcc acg aqa tcc agc cac tct tgc cac cgc Met Thr Ser Thr Pro Gly Ser Thr Arg Ser Ser His Ser Cys His Arg	120 125 130 135	558
agg gtg aac gct cct ccg gtg cac gcc gtc cca agt tcg agg gag atg Arg Val Asn Ala Pro Pro Val His Ala Val Pro Ser Ser Arg Glu Met	140 145 150	606
aat gag tac ttc gct gcc gaa cag cga cgc caa caa cag gat ttc att Asn Glu Tyr Phe Ala Ala Glu Gln Arg Arg Gln Gln Gln Asp Phe Ile	155 160 165	654
gac aag tac aac ttc gat cct gca aac gac tgc cct ctc cca ggc agg Asp Lys Tyr Asn Phe Asp Pro Ala Asn Asp Cys Pro Leu Pro Gly Arg	170 175 180	702
ttt gag tgg gtg aag cta gac t gatggattca gagggacgag agagcagcag Phe Glu Trp Val Lys Leu Asp	185 190	754
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tgtagcctta attggtcgtg tgttacagta cagaactgat gctgagttac aacaccctga		874
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 Ala Gly Gly Glu Tyr Leu Glu Leu Arg Asn Arg Arg Leu Glu Lys Leu  
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 Pro Pro Pro Pro Ala Thr Thr Arg Arg Ser Gly Gly Arg Lys Ala Ala  
 65 70 75 80  
 Ala Glu Ala Ala Ala Thr Lys Glu Ala Glu Ala Ser Tyr Gly Glu Asn  
 85 90 95  
 Met Leu Glu Leu Glu Ala Met Glu Arg Ile Thr Arg Glu Thr Thr Pro  
 100 105 110  
 Cys Ser Leu Ile Asn Thr Gln Met Thr Ser Thr Pro Gly Ser Thr Arg  
 115 120 125  
 Ser Ser His Ser Cys His Arg Arg Val Asn Ala Pro Pro Val His Ala  
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 Val Pro Ser Ser Arg Glu Met Asn Glu Tyr Phe Ala Ala Glu Gln Arg  
 145 150 155 160  
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 agcgagaaga aggcagtgct gcggcggcgt tccgtaag atg ggg aag tac atg cgc 176  
 Met Gly Lys Tyr Met Arg  
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aag cgc agg ggg gcc gcg ggc gag ggg gtg gcc gca gtc gag gtc tcg 224  
 Lys Arg Arg Gly Ala Ala Gly Glu Gly Val Ala Ala Val Glu Val Ser  
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cag gtc gtc ggc gtc cgg acg agg tcc agg tcc gcg gcg gcg acc ggc 272  
 Gln Val Val Gly Val Arg Thr Arg Ser Arg Ser Ala Ala Ala Thr Gly  
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ggc ggt gtc gcg aag gtc gct ccg ccg agg agg aag aag gcg ctg ctg 320  
 Gly Gly Val Ala Lys Val Ala Pro Pro Arg Arg Lys Lys Ala Leu Leu  
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ccc gcc gcg aac gtg acg acg tcg ggg gag cct ggt gcc gtg ggc gct 368  
 Pro Ala Ala Asn Val Thr Ser Gly Glu Pro Gly Ala Val Gly Ala  
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ggt ggt ggg gac ggc gga agc tgc tgc tac atc cac ctg cgg agc cgc 416  
 Gly Gly Gly Asp Gly Gly Ser Cys Cys Tyr Ile His Leu Arg Ser Arg  
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atg ctg ttc atg gca gca cct cag cag caa ccg tcg gcg gct ctg acg 464  
 Met Leu Phe Met Ala Ala Pro Gln Gln Gln Pro Ser Ala Ala Leu Thr  
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ccg gtg gag gct gct ggt gcg gca car caa ggc ggg gtg gtg gcg ctc 512  
 Pro Val Glu Ala Ala Gly Ala Ala Xaa Gln Gly Gly Val Val Ala Leu  
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gcg gct ggc ctc tcg cgt tgc tcc agc acg gcg tcg tcg gtg gac gtc 560  
 Ala Ala Gly Leu Ser Arg Cys Ser Ser Thr Ala Ser Ser Val Asp Val  
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ggg ggc cac gcc tgc cgc tcc gac gct gcg cct gcg gag gtt gac ggg 608  
 Gly Gly His Ala Cys Arg Ser Asp Ala Ala Pro Ala Glu Val Asp Gly  
 135 140 145 150

gat cac gtc ccg gat gtc gtc acc gcg agc aac tcg ggg agc gtc ccg 656  
 Asp His Val Pro Asp Val Val Thr Ala Ser Asn Ser Gly Ser Val Pro  
 155 160 165

gac cgc gag agg aga gag acg acg cca tcg tcg agc cgg gcg cac ggc 704  
 Asp Arg Glu Arg Arg Glu Thr Thr Pro Ser Ser Ser Arg Ala His Gly  
 170 175 180

ggc gag ctc agc gat ctg gag tcg gat ctg gtg ggg cgg cag aag act 752  
 Gly Glu Leu Ser Asp Leu Glu Ser Asp Leu Val Gly Arg Gln Lys Thr  
 185 190 195

ggc tgc tcg tcg tcg ccg gcg aca aca aca tcg gct gcg gag ctg atc 800  
 Gly Cys Ser Ser Ser Pro Ala Thr Thr Thr Ser Ala Ala Glu Leu Ile  
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 Arg Lys Lys Ala Leu Leu Pro Ala Ala Asn Val Thr Thr Ser Gly Glu  
 50 55 60  
 Pro Gly Ala Val Gly Ala Gly Gly Gly Asp Gly Gly Ser Cys Cys Tyr  
 65 70 75 80  
 Ile His Leu Arg Ser Arg Met Leu Phe Met Ala Ala Pro Gln Gln Gln  
 85 90 95  
 Pro Ser Ala Ala Leu Thr Pro Val Glu Ala Ala Gly Ala Ala Xaa Gln  
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 Gly Gly Val Val Ala Leu Ala Ala Gly Leu Ser Arg Cys Ser Ser Thr  
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 Ala Ser Ser Val Asp Val Gly Gly His Ala Cys Arg Ser Asp Ala Ala  
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 Pro Ala Glu Val Asp Gly Asp His Val Pro Asp Val Val Thr Ala Ser  
 145 150 155 160  
 Asn Ser Gly Ser Val Pro Asp Arg Glu Arg Arg Glu Thr Thr Pro Ser  
 165 170 175  
 Ser Ser Arg Ala His Gly Gly Glu Leu Ser Asp Leu Glu Ser Asp Leu  
 180 185 190  
 Val Gly Arg Gln Lys Thr Gly Cys Ser Ser Ser Pro Ala Thr Thr Thr  
 195 200 205  
 Ser Ala Ala Glu Leu Ile Val Pro Pro Ala Gln Glu Ile Gln Glu Phe  
 210 215 220  
 Phe Ala Ala  
 225